

Title (en)  
OLIGONUCLEOTIDE PROBES AND USES THEREOF

Title (de)  
OLIGONUKLEOTIDSONDEN UND VERWENDUNGEN DAVON

Title (fr)  
SONDES OLIGONUCLEOTIDIQUES ET LEURS UTILISATIONS

Publication  
**EP 4339288 A3 20240605 (EN)**

Application  
**EP 23199693 A 20170318**

Priority

- US 201662413361 P 20161026
- US 201662420497 P 20161110
- US 201662432561 P 20161209
- US 201762457691 P 20170210
- US 201662310665 P 20160318
- US 201762472953 P 20170317
- EP 20213211 A 20170318
- EP 17767690 A 20170318
- US 2017023108 W 20170318

Abstract (en)  
Methods and compositions are provided to identify oligonucleotides that bind targets of interest. The targets include tissues, cells, circulating biomarkers such as microvesicles, including those derived from various diseases. The oligonucleotides can be used in diagnostic and therapeutic applications.

IPC 8 full level  
**C12N 15/10** (2006.01); **C12N 15/115** (2010.01); **C12Q 1/6811** (2018.01)

CPC (source: EP IL KR US)  
**C12N 15/10** (2013.01 - EP IL KR US); **C12N 15/115** (2013.01 - EP IL KR US); **C12Q 1/6811** (2013.01 - EP);  
**C12Q 1/6883** (2013.01 - EP IL KR US); **C12Q 1/6886** (2013.01 - EP IL KR US); **C12N 2310/16** (2013.01 - EP IL KR US);  
**C12N 2330/31** (2013.01 - EP IL KR US); **C12Q 2537/159** (2013.01 - IL KR); **C12Q 2600/106** (2013.01 - EP IL US);  
**C12Q 2600/156** (2013.01 - EP IL US); **C12Q 2600/158** (2013.01 - EP IL US); **Y02A 50/30** (2018.01 - EP)

C-Set (source: EP US)  
EP  
1. **C12N 15/10 + C12Q 2537/159**  
2. **C12Q 1/6811 + C12Q 2525/205 + C12Q 2527/125 + C12Q 2543/10 + C12Q 2563/125**  
US  
**C12N 15/10 + C12Q 2537/159**

Citation (search report)

- [A] WO 2011006075 A1 20110113 - SOMALOGIC INC [US], et al
- [A] WO 2013062515 A2 20130502 - SOMALOGIC INC [US], et al
- [A] SHAOHUA LI ET AL: "Identification of an aptamer targeting hnRNP A1 by tissue slide-based SELEX", vol. 218, no. 3, 1 July 2009 (2009-07-01), pages 327 - 336, XP002697993, ISSN: 0022-3417, Retrieved from the Internet <URL:http://onlinelibrary.wiley.com/doi/10.1002/path.2543/pdf> [retrieved on 20090217], DOI: 10.1002/PATH.2543
- [A] ZIHUA ZENG: "Using oligonucleotide aptamer probes for immunostaining of formalin-fixed and paraffin-embedded tissues", MODERN PATHOLOGY, vol. 23, no. 12, 6 August 2010 (2010-08-06), GB, pages 1553 - 1558, XP093155119, ISSN: 0893-3952, Retrieved from the Internet <URL:https://www.nature.com/articles/modpathol2010151.pdf> DOI: 10.1038/modpathol.2010.151
- [A] YING PU: "Using DNA Aptamer Probe for Immunostaining of Cancer Frozen Tissues", ANALYTICAL CHEMISTRY, vol. 87, no. 3, 3 February 2015 (2015-02-03), US, pages 1919 - 1924, XP093155465, ISSN: 0003-2700, DOI: 10.1021/ac504175h

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2017161357 A1 20170921**; AU 2017235661 A1 20181004; AU 2017235661 B2 20230608; AU 2023226698 A1 20231102;  
CA 3018066 A1 20170921; CN 109715802 A 20190503; EP 3430137 A1 20190123; EP 3430137 A4 20191106; EP 3828272 A1 20210602;  
EP 3828272 B1 20230927; EP 3828272 B9 20231227; EP 4339288 A2 20240320; EP 4339288 A3 20240605; IL 261832 A 20181031;  
IL 261832 B 20221201; IL 261832 B2 20230401; IL 297634 A 20221201; IL 297634 B1 20230701; IL 297634 B2 20231101;  
IL 303936 A 20230801; JP 2019516393 A 20190620; KR 20190008843 A 20190125; US 10731166 B2 20200804; US 11332748 B2 20220517;  
US 2019078093 A1 20190314; US 2021062191 A1 20210304; US 2023250437 A1 20230810

DOCDB simple family (application)  
**US 2017023108 W 20170318**; AU 2017235661 A 20170318; AU 2023226698 A 20230906; CA 3018066 A 20170318;  
CN 201780027966 A 20170318; EP 17767690 A 20170318; EP 20213211 A 20170318; EP 23199693 A 20170318; IL 26183218 A 20180917;  
IL 29763422 A 20221025; IL 30393623 A 20230621; JP 2018568182 A 20170318; KR 20187029624 A 20170318; US 201716084504 A 20170318;  
US 202016897976 A 20200610; US 202217727263 A 20220422